

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A mobile communication system comprising:
 - a mobile terminal capable of designating a communication quality in requesting communication;
 - a radio base station connected to said mobile terminal through a radio channel;
 - and
 - a radio network controller connected to said radio base station to control the communication quality between said mobile terminal and said radio base station,wherein said radio network controller comprises a communication request reception determination unit for, upon receiving a communication request which designates the communication quality from said mobile terminal, determining whether the received communication request is to be received, on the basis of a communication quality provided to communication which requests without communication quality,
- wherein:
- said communication quality is based on an error rate in said radio channel between said mobile terminal and said radio base station,

said radio network controller further comprises a communication quality measurement unit for measuring a communication quality Q provided to communication which requests without communication quality, and

said communication request reception determination unit comprises:

comparison means for, upon receiving the communication request which designates the communication quality, comparing the measured communication quality Q output from said communication quality measurement unit with a predetermined threshold value,

bandwidth setting means for re-setting an allowable communication bandwidth on the basis of a comparison result from said comparison means, and

determination means for determining whether the communication request is to be received, on the basis of a bandwidth required by the received communication request and the allowable communication bandwidth re-set by said bandwidth setting means,

wherein:

when the measured communication quality Q is higher than a first threshold value QH, said bandwidth setting means increases the allowable communication bandwidth by a first predetermined value to re-set a new allowable communication bandwidth, and when the measured communication quality Q is lower than a second threshold value QL ($QL < QH$), said bandwidth setting means decreases the allowable communication bandwidth by a second predetermined value to re-set a new allowable communication bandwidth, and

when the bandwidth required by the received communication request falls within the re-set allowable communication bandwidth, said determination means permits to receive the

communication request, and when the bandwidth required by the received communication request falls outside the re-set allowable communication bandwidth, said determination means denies to receive the communication request.

Claim 2 (canceled)

3. (currently amended): A system according to claim 2~~1~~, wherein
said communication request reception determination unit further comprises
inquiry means for, upon receiving the communication request which designates the
communication quality, inquiring of said communication quality measurement unit of the
communication quality Q provided to communication which requests without communication
quality, and

said communication quality measurement unit measures the communication
quality Q and outputs the communication quality to said communication request reception
determination unit in response to the inquiry from said inquiry means.

4. (currently amended): A mobile communication system comprising:
a mobile terminal capable of designating a communication quality in requesting
communication;
a radio base station connected to said mobile terminal through a radio channel; and

a radio network controller connected to said radio base station to control the communication quality between said mobile terminal and said radio base station,

wherein said radio network controller comprises a communication request reception determination unit for, upon receiving a communication request which designates the communication quality from said mobile terminal, determining whether the received communication request is to be received, on the basis of a communication quality provided to communication which requests without communication quality, and

wherein, said radio network controller further comprises a communication quality measurement unit for measuring a communication quality Q provided to communication which requests without communication quality, and

said communication request reception determination unit comprises comparison means for, upon receiving the communication request which designates the communication quality, comparing the measured communication quality Q output from said communication quality measurement unit with a predetermined threshold value,

bandwidth setting means for re-setting an allowable communication bandwidth on the basis of a comparison result from said comparison means,

determination means for determining whether the communication request is to be received, on the basis of a bandwidth required by the received communication request and the allowable communication bandwidth re-set by said bandwidth setting means

wherein, when the measured communication quality Q is higher than a first threshold value QH, said bandwidth setting means increases the allowable communication bandwidth by a

first predetermined value to re-set a new allowable communication bandwidth, and when the measured communication quality Q is lower than a second threshold value Q_L ($Q_L < Q_H$), said bandwidth setting means decreases the allowable communication bandwidth by a second predetermined value to re-set a new allowable communication bandwidth, and

when the bandwidth required by the received communication request falls within the re-set allowable communication bandwidth, said determination means permits to receive the communication request, and when the bandwidth required by the received communication request falls outside the re-set allowable communication bandwidth, said determination means denies to receive the communication request.

5. (original): A system according to claim 4, wherein when the measured communication quality Q has a value between the first threshold value Q_H and the second threshold value Q_L , said bandwidth setting means maintains the current allowable communication bandwidth.

6. (original): A system according to claim 4, wherein when the newly set allowable communication bandwidth exceeds a communication bandwidth of the radio channel, the allowable communication bandwidth is set to the communication bandwidth of the radio channel, and when the newly set allowable communication bandwidth is lower than a first predetermined value, the allowable communication bandwidth is set to the first predetermined value.

Claim 7 (canceled)

8. (new) A mobile communication system comprising:

a mobile terminal operative to designate a communication quality in a requested communication;

a radio base station connected to said mobile terminal through a radio channel; and

a radio network controller connected to said radio base station to control the communication quality between said mobile terminal and said radio base station;

wherein said radio network controller comprises:

a communication quality measurement unit operative to measure a communication quality; and

a communication request reception determination unit operative to, upon receiving a communication request which designates a communication quality from said mobile terminal, determine whether the received communication request is to be accepted;

wherein said communication request reception determination unit comprises comparison means for, upon receiving the communication request which designates said communication quality, comparing said measured communication quality output from said communication quality measurement unit with at least one predetermined threshold value;

wherein said communication quality measurement unit measures communication quality provided to communications requested without communication quality;

the communication request reception determination unit further comprising:

bandwidth setting means for re-setting, on the basis of a comparison result from said comparison means, a communication bandwidth to be assigned to communications to which the communication quality is not designated; and

determination means for determining whether the communication request which designates communication quality is to be accepted, on the basis of the bandwidth required by the received communication request, and on the basis of said communication quality provided to communications requested without communication quality and of the communication bandwidth re-set by said bandwidth setting means,

wherein:

there are two predetermined threshold values, and when said measured communication quality is higher than said first threshold value, said bandwidth setting means increases said communication bandwidth by a first predetermined value to re-set to a new communication bandwidth and when said measured communication quality is lower than said second threshold value, said bandwidth setting means decreases said communication bandwidth by a second predetermined value to re-set to a new communication bandwidth;

when said measured communication quality has a value between said first threshold value and said second threshold value, said bandwidth setting means maintains said communication bandwidth; and

when the bandwidth required by said received communication request which designates communication quality falls within said re-set communication bandwidth, said determination means accepts said communication request, and when the bandwidth required by said received communication request which designates communication quality falls outside said re-set communication bandwidth, said determination means does not accept said communication request which designates a communication quality.